

## CONTENTS OF VOLUME 34

- Adey, A. W.** Microwave refractometer cavity design, 519.
- Allan, A. B.** See King, R. O., 316.
- Armstrong, A. M.** See Braid, P. E., 45.
- Baerg, A. P.** See Van Cleave, A. B., 425.
- Barncroft, A. R.** See Butler, R. M., 340.
- Bauer, H. F.** A simple apparatus for the change-over from reflux to distillation, 397.
- Bourgault, P. L.** See Casey, E. J., 95.
- Bourgault, P. L., Lake, P. E., Casey, E. J., and Dubois, A. R.** Nickel-cadmium batteries. II. Impregnation of positive plates by thermal decomposition of aqueous nickel nitrate, 495.
- Brady, J. G., Eager, R. L., and Humphrys, J. M.** An apparatus for differential thermal analysis, 1.
- Braid, P. E., Langille, R. C., and Armstrong, A. M.** Studies in electrostatics: A. Prevention of electrostatic charges on powders. B. Prevention of explosions during hand operations on detonators, 45.
- Brown, W. G. and Colborne, W. G.** Fundamentals of chimney performance, 354.
- Brown, W. G. and Lentz, C. P.** Moisture absorption by some packaging materials at subfreezing temperatures, 366.
- Buckholz, E. E.** A precision apparatus for applying liquids to test surfaces, 399.
- Burr, A. C. and Neil, D. J.** A thermocouple connection operated by remote control, 88.
- Butler, R. M.** See Plewes, A. C., 152.
- Butler, R. M., Spence, A. E., Barncroft, A. R., and Plewes, A. C.** The phenol extraction of lubricating oils, 340.
- Butler, R. M. and Tiedje, J. L.** The washing of wax filter cakes, 455.
- Casey, E. J.** See Bourgault, P. L., 495.
- Casey, E. J., Bourgault, P. L., and Lake, P. E.** Nickel-cadmium batteries. I. Sintered plates from a new Canadian nickel powder, 95.
- Cavers, S. D.** See Eager, R. L., 121; Gunn, B., 379.
- Colborne, W. G.** See Brown, W. G., 354.
- Craig, B. M.** Comparison of the fatty acid composition of rapeseed and mustardseed oils, 335.
- Crowe, C.** See Misener, A. D., 41.
- Cudmore, W. J. G.** See Eager, R. L., 121.
- Dubois, A. R.** See Bourgault, P. L., 495.
- Dunne, N. R.** See Eager, R. L., 121.
- Eager, R. L.** See Brady, J. G., 1.
- Eager, R. L., Cavers, S. D., Graham, W., Dunne, N. R., and Cudmore, W. J. G.** Solvent extraction of Saskatchewan lignites. I. Survey of lignites and solvents, 121.
- Epstein, N.** See Galloway, L. R., 92.
- Fraser, R. R.** See Pattison, F. L. M., 21.
- Furter, W. F.** See Johnson, A. I., 413, 429, 514.
- Gagnon, P. E., Keirstead, K. F., Walker, J., and Kavanaugh, K. R.** Hydrolysis of cellulose acetate sulphate in acetone/water solutions, 71.
- Gagnon, P. E., Keirstead, K. F., and Yamasaki, D.** Determination of sulphate acid ester in unstabilized cellulose nitrate, 477.
- Galloway, L. R. and Epstein, N.** A mixture and method for making tough porous uniform spheres, 92.
- Giguère, P. A. and Liu, I. D.** Pressure transducers as recording manometers in chemical kinetics, 473.
- Gishler, P. E.** See Peterson, W. S., 104.
- Goring, D. A. I.** The effect of temperature and acidity on the dry storage of sodium carrageenate, 39.  
A semimicro gelometer, 53.
- Graham, W.** See Eager, R. L., 121.
- Graham, W. D.** Viscosity - weight average molecular weight relationships for dextrans in the higher clinical size range. Reproducibility of the light scattering method, 83.

## CONTENTS OF VOLUME 34

- Adey, A. W.** Microwave refractometer cavity design, 519.
- Allan, A. B.** See King, R. O., 316.
- Armstrong, A. M.** See Braid, P. E., 45.
- Baerg, A. P.** See Van Cleave, A. B., 425.
- Barncroft, A. R.** See Butler, R. M., 340.
- Bauer, H. F.** A simple apparatus for the change-over from reflux to distillation, 397.
- Bourgault, P. L.** See Casey, E. J., 95.
- Bourgault, P. L., Lake, P. E., Casey, E. J., and Dubois, A. R.** Nickel-cadmium batteries. II. Impregnation of positive plates by thermal decomposition of aqueous nickel nitrate, 495.
- Brady, J. G., Eager, R. L., and Humphrys, J. M.** An apparatus for differential thermal analysis, 1.
- Braid, P. E., Langille, R. C., and Armstrong, A. M.** Studies in electrostatics: A. Prevention of electrostatic charges on powders. B. Prevention of explosions during hand operations on detonators, 45.
- Brown, W. G. and Colborne, W. G.** Fundamentals of chimney performance, 354.
- Brown, W. G. and Lentz, C. P.** Moisture absorption by some packaging materials at subfreezing temperatures, 366.
- Buckholz, E. E.** A precision apparatus for applying liquids to test surfaces, 399.
- Burr, A. C. and Neil, D. J.** A thermocouple connection operated by remote control, 88.
- Butler, R. M.** See Plewes, A. C., 152.
- Butler, R. M., Spence, A. E., Barncroft, A. R., and Plewes, A. C.** The phenol extraction of lubricating oils, 340.
- Butler, R. M. and Tiedje, J. L.** The washing of wax filter cakes, 455.
- Casey, E. J.** See Bourgault, P. L., 495.
- Casey, E. J., Bourgault, P. L., and Lake, P. E.** Nickel-cadmium batteries. I. Sintered plates from a new Canadian nickel powder, 95.
- Cavers, S. D.** See Eager, R. L., 121; Gunn, B., 379.
- Colborne, W. G.** See Brown, W. G., 354.
- Craig, B. M.** Comparison of the fatty acid composition of rapeseed and mustardseed oils, 335.
- Crowe, C.** See Misener, A. D., 41.
- Cudmore, W. J. G.** See Eager, R. L., 121.
- Dubois, A. R.** See Bourgault, P. L., 495.
- Dunne, N. R.** See Eager, R. L., 121.
- Eager, R. L.** See Brady, J. G., 1.
- Eager, R. L., Cavers, S. D., Graham, W., Dunne, N. R., and Cudmore, W. J. G.** Solvent extraction of Saskatchewan lignites. I. Survey of lignites and solvents, 121.
- Epstein, N.** See Galloway, L. R., 92.
- Fraser, R. R.** See Pattison, F. L. M., 21.
- Furter, W. F.** See Johnson, A. I., 413, 429, 514.
- Gagnon, P. E., Keirstead, K. F., Walker, J., and Kavanaugh, K. R.** Hydrolysis of cellulose acetate sulphate in acetone/water solutions, 71.
- Gagnon, P. E., Keirstead, K. F., and Yamasaki, D.** Determination of sulphate acid ester in unstabilized cellulose nitrate, 477.
- Galloway, L. R. and Epstein, N.** A mixture and method for making tough porous uniform spheres, 92.
- Giguère, P. A. and Liu, I. D.** Pressure transducers as recording manometers in chemical kinetics, 473.
- Gishler, P. E.** See Peterson, W. S., 104.
- Goring, D. A. I.** The effect of temperature and acidity on the dry storage of sodium carrageenate, 39.  
A semimicro gelometer, 53.
- Graham, W.** See Eager, R. L., 121.
- Graham, W. D.** Viscosity - weight average molecular weight relationships for dextrans in the higher clinical size range. Reproducibility of the light scattering method, 83.

- Guest, R. M.** The potentials of zinc and steel in tap water, 245.
- Gunn, B., Cavers, S. D., and Van Cleave, A. B.** The extraction of uranium from a Saskatchewan pegmatite granite, 379.
- Hannaford, W. L. W.** See Serson, P. H., 232.
- Hayes, S. V.** See King, R. O., 442.
- Huang, C.-J.** See Johnson, A. I., 405.
- Humphrys, J. M.** See Brady, J. G., 1.
- Johnson, A. I. and Furter, W. F.** Salt effect in vapor-liquid equilibrium. Part I, 413.  
Algebraic representation of vapor-liquid equilibrium data, 429.
- Johnson, A. I. and Huang, C.-J.** Estimation of ideal gas heat capacities of hydrocarbons, 405.
- Johnson, A. I., Ward, D. M., and Furter, W. F.** Vapor-liquid equilibrium data for system: *n*-octane - propionic acid, with salt effect, 514.
- Jutras, J. R., Léger, E. G., and Ouellet, C.** Double enregistrement photoélectrique et manométrique de réactions rapides en phase gazeuse. Application aux flammes froides, 29.
- Kavanaugh, K. R.** See Gagnon, P. E., 71.
- Keirstead, K. F.** See Gagnon, P. E., 71, 477.
- Keller, H.** See Peterson, W. S., 104.
- Khalifa, M.** Properties of vacuum as a switching ambient, 304.
- King, R. O.** See Shanfield, H., 10.
- King, R. O. and Allan, A. B.** The oxidation, decomposition, ignition, and detonation of fuel vapors and gases. XXIX. The role of nuclei in the ignition by compression of gaseous heptane-air mixtures: first paper, 316.
- King, R. O. and Hayes, S. V.** The oxidation, decomposition, ignition, and detonation of fuel vapors and gases. XXX. The hydrogen engine and detonation of the end gas by the igniting effect of carbon nuclei formed by pyrolysis of lubricating oil vapor, 442.
- Lake, P. E.** See Bourgault, P. L., 495; Casey, E. J., 95.
- Langille, R. C.** See Braid, P. E., 45.
- Léger, E. G.** See Jutras, J. R., 29.
- Lentz, C. P.** See Brown, W. G., 366.
- Liu, I. D.** See Giguère, P. A., 473.
- Lu, B. C.-Y.** Vapor-liquid equilibrium data for systems methanol-toluene and *n*-propanol-toluene, 468.  
A note on thermodynamic consistency tests of binary vapor-liquid equilibrium data, 523.
- Lusena, C. V.** See Tessier, H., 131.
- McIntyre, J. D. and McMillan, A. F.** An adhesion test for electroplates, 212.
- McMillan, A. F.** See McIntyre, J. D., 212.
- Madonna, L. A.** The design and operation of a cloud chamber, 485.
- Marris, A. W.** Hydraulic stability in the simple surge tank, 182.
- Middleton, E. J.** See Pattison, F. L. M., 21.
- Misener, A. D. and Crowe, C.** Note on a convenient recording technique for rapid changes, 41.
- Mueller, W. A.** Corrosion studies of carbon steel in alkaline pulping liquors by the potential-time and polarization curve methods. I. Theory, methods, and selected results, 162.
- Neil, D. J.** See Burr, A. C., 88.
- Niven, C. D.** On the friction of heated sleigh runners on ice under high loading, 227.  
The measurement of the thermal insulation of textiles in wind, 254.
- Ouellet, C.** See Jutras, J. R., 29.
- Pattison, F. L. M., Fraser, R. R., Middleton, E. J., Schneider, J. C., and Stothers, J. B.** Esters of fluoroacetic acid and 2-fluoroethanol, 21.
- Pawliw, J. and Spinks, J. W. T.** Neutron moisture meter for concrete, 503.
- Peterson, W. S., Keller, H., and Gishler, P. E.** Fluidized solids coking of Canadian heavy crude oils, 104.
- Plewes, A. C.** See Butler, R. M., 340.
- Plewes, A. C., Butler, R. M., and Pugi, K.** Thermodynamic properties of acetic acid - water, 152.
- Pugi, K.** See Plewes, A. C., 152.

- Rose, D.** *With the technical assistance of Belec, J. M.* Influence of sugars and glycerol on casein precipitation in frozen milk, 145.  
See also Tessier, H., 131, 211.
- Rose, D. and Tessier, H.** Effect of heat and of prefreezing storage on the stability of frozen milk, 139.
- Roxburgh, J. M.** The explosive characteristics of elevator dusts, 260.
- Roxburgh, J. M., Spencer, J. F. T., and Sallans, H. R.** Recovery of polyhydric alcohols from yeast fermentations, 248.  
Description of 5-liter stainless steel fermentors, 389.
- Sallans, H. R.** See Roxburgh, J. M., 248, 389.
- Satyanarayana, B. S.** A note on the measurement of Vickers hardness indentations, 375.
- Schneider, J. C.** See Pattison, F. L. M., 21.
- Serson, P. H. and Hannaford, W. L. W.** A portable electrical magnetometer, 232.
- Shanfield, H. and King, R. O.** The decomposition, oxidation, ignition, and detonation of fuel vapors and gases. XXVIII. The thermal decomposition of *n*-pentane as affected by the flow configuration in King reactor No. 10, 10.
- Smith, D. S.** Electrodeless discharge lamp exciter, 521.
- Spence, A. E.** See Butler, R. M., 340.
- Spencer, J. F. T.** See Roxburgh, J. M., 248, 389.
- Spinks, J. W. T.** See Pawliw, J., 503.
- Steiner, G. and Tarr, H. L. A.** Penetration of chlortetracycline into fish muscle and its destruction by heat, 215.
- Stothers, J. B.** See Pattison, F. L. M., 21.
- Tarr, H. L. A.** See Steiner, G., 215.
- Tessier, H.** See Rose, D., 139.
- Tessier, H. and Rose, D.** Composition of the liquid portion of frozen milk, 211.
- Tessier, H., Rose, D., and Lusena, C. V.** Lactose crystallization in frozen milk, 131.
- Tiedje, J. L.** See Butler, R. M., 455.
- Van Cleave, A. B.** See Gunn, B., 379.
- Van Cleave, A. B. and Baerg, A. P.** The extraction of Th<sup>230</sup> (ionium) from a Canadian pitchblende residue, 425.
- Vincent, D. L.** The preparation of sodium alginate from rockweed, 220.
- Wait, J. R.** On the measurement of the conductivity of a fluid contained in a cylindrical vessel, 410.
- Wait, J. R. and Walpole, R. E.** Calculated radiation characteristics of slots cut in metal sheets. II, 60.
- Walker, J.** See Gagnon, P. E., 71.
- Walpole, R. E.** See Wait, J. R., 60.
- Ward, D. M.** See Johnson, A. I., 514.
- Watson, J. S.** An all glass circulating pump for gases, 373.
- Whalley, E.** The design of pressure vessels subjected to thermal stress. I. General theory for monoblock vessels, 268.  
The design of pressure vessels subjected to thermal stress. II. Steady state temperature distribution, 291.
- Wright, G. F.** A useful modification of the Hershberg melting point apparatus, 89.
- Yamasaki, D.** See Gagnon, P. E., 477.

